Center Innovation Fund: JPL CIF

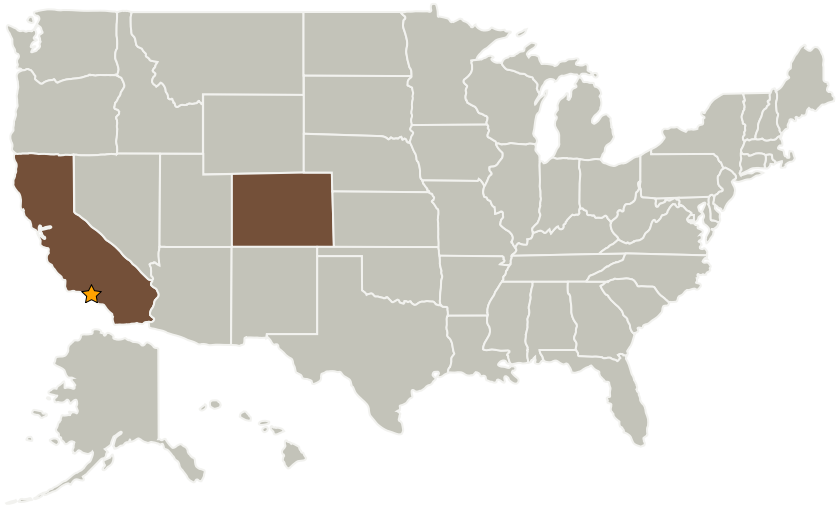
LiAISON: Linked, Autonomous Interplanetary Satellite Orbit Navigation

Completed Technology Project (2011 - 2012)

Project Introduction

A new navigation technique known as LiAISON (Linked Autonomous Interplanetary Satellite Orbit Navigation) may be used to propel the benefits of GPS to new orbits, including GEO, lunar, L1, and L2 orbits.

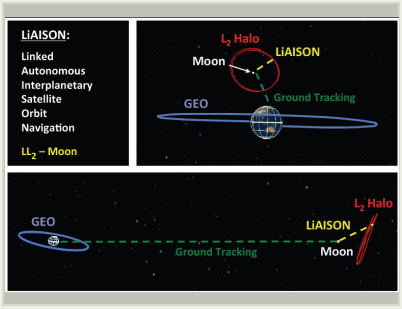
Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California

Co-Funding Partners	Type	Location
University of Colorado Boulder	Academia	Boulder, Colorado

Primary U.S. Work Locations	
California	Colorado



Project Image LiAISON: Linked, Autonomous Interplanetary Satellite Orbit Navigation

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

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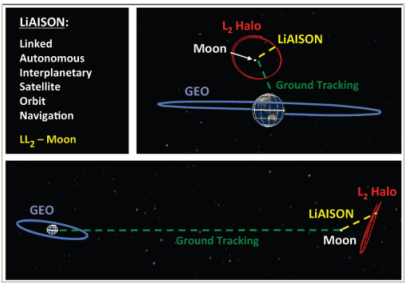
Images



61.png
Project Image LiAISON: Linked, Autonomous Interplanetary Satellite Orbit Navigation
(https://techport.nasa.gov/image/1156)

Project Management

Program Director:
Michael R Lapointe

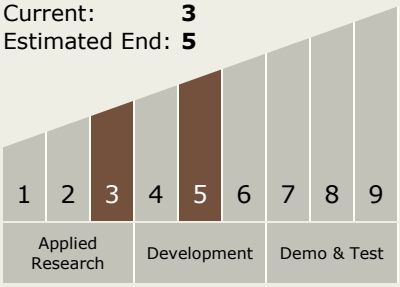
Program Manager:
Fred Y Hadaegh

Project Manager:
Jonas Zmuidzinas

Principal Investigator:
Jeffrey S Parker

Technology Maturity (TRL)

Start: **3**
Current: **3**
Estimated End: **5**



Technology Areas

Primary:

- TX17 Guidance, Navigation, and Control (GN&C)
  - TX17.2 Navigation Technologies
    - TX17.2.1 Onboard Navigation Algorithms